

BRAUN

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Service Manual for:

NVL
Vista
Series

Public Use Wheelchair Lifts

Series A3

DOT — Public Use Lift

"DOT — Public Use Lift" verifies that this platform lift meets the "public use lift" requirements of FMVSS No. 403. This lift may be installed on all vehicles appropriate for the size and weight of the lift, but must be installed on buses, school buses, and multi-purpose passenger vehicles other than motor homes with a gross vehicle weight rating (GVWR) that exceeds 4,536 kg (10,000 lb).

 **THE BRAUN
CORPORATION**
"Providing Access to the World"®

International Corporate Hdqrs: P.O. Box 310 Winamac, IN 46996 USA
1-800-THE LIFT® (574) 946-6153 FAX: (574) 946-4670



32744
February
2006

Patent #5,261,779

Patent #6,065,924

Patent #6,238,169

Patent #6,464,447

Patent #6,599,079

Patent #6,692,217

Patent #6,739,824

Patent #6,837,670

Patents Pending

WARNING



Read manual
before installing
or servicing lift.
Failure to do so
may result in
serious bodily
injury and/or
property damage.

Congratulations

We at The Braun Corporation wish to express our fullest appreciation on your new purchase. With you in mind, our skilled craftsmen have designed and assembled the finest lift available.

This manual provides service-related material. Refer to the FMVSS No. 403 Quick Reference Installation Sheet for installation instructions, operating instructions and maintenance procedures.

Braun Vista Series™ lifts are built for dependability and will provide years of pleasure and independence as long as the lift is installed and serviced as specified by a Braun certified technician, and the lift is operated by an instructed person.

Sincerely,
THE BRAUN CORPORATION



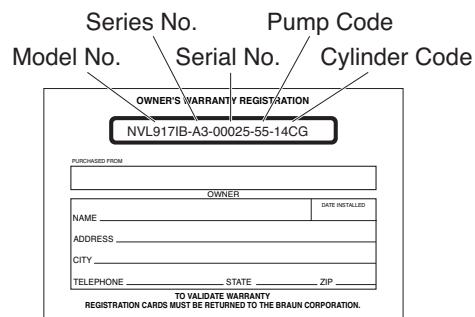
Ralph W. Braun
Chief Executive Officer

Warranty and Registration Instructions

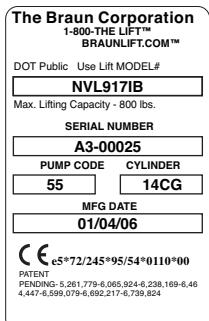
Immediately upon receiving the lift, examine the unit for any damage. Notify the carrier at once with any claims.

Two warranty/registration cards (shown right) are located in the lift-mounted manual storage pouch. The sales representative must process one of the cards. The consumer must fill out the other card and mail it to The Braun Corporation. The warranty is provided on the back cover of this manual. The **warranty cards must be processed to activate the warranty.**

Two Braun Serial No./Series No. identification tags (shown below) are posted on the lift. One I.D. tag is posted on the opposite pump side vertical arm. A second I.D. tag is located on the opposite pump side tower. Both I.D. tags provide the product identification information provided on the warranty/registration card. Record the information in the space provided (or document on a copy). **This information must be provided when filing a warranty claim or ordering parts.**



Sample Warranty/Registration Card



Sample Serial No./Series No. Identification Tag

Model No. _____

Series No. _____

Serial No. _____

Pump Code _____

Cylinder Code _____

Date of Manufacture _____

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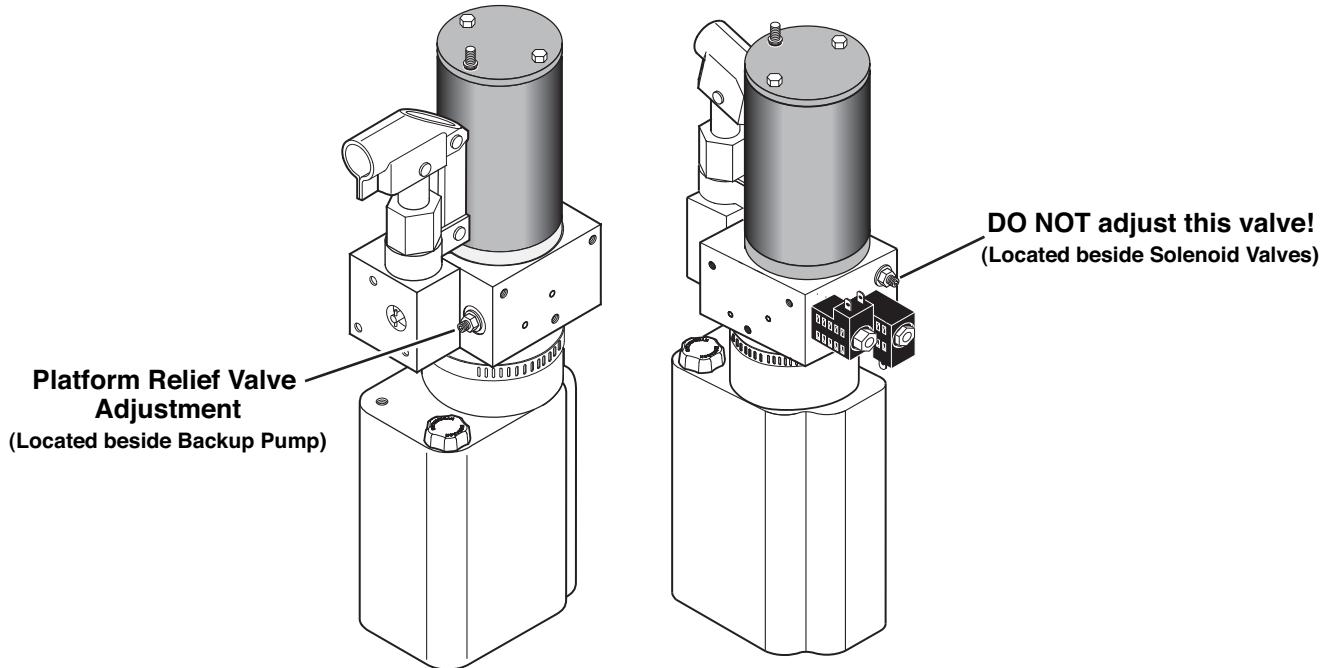
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Certification Checklist Diagnostic Procedures

Use the following adjustment procedures should the lift not function as described in the certification checklist. These procedures must be followed in order for the lift to be FMVSS 403/404 compliant.

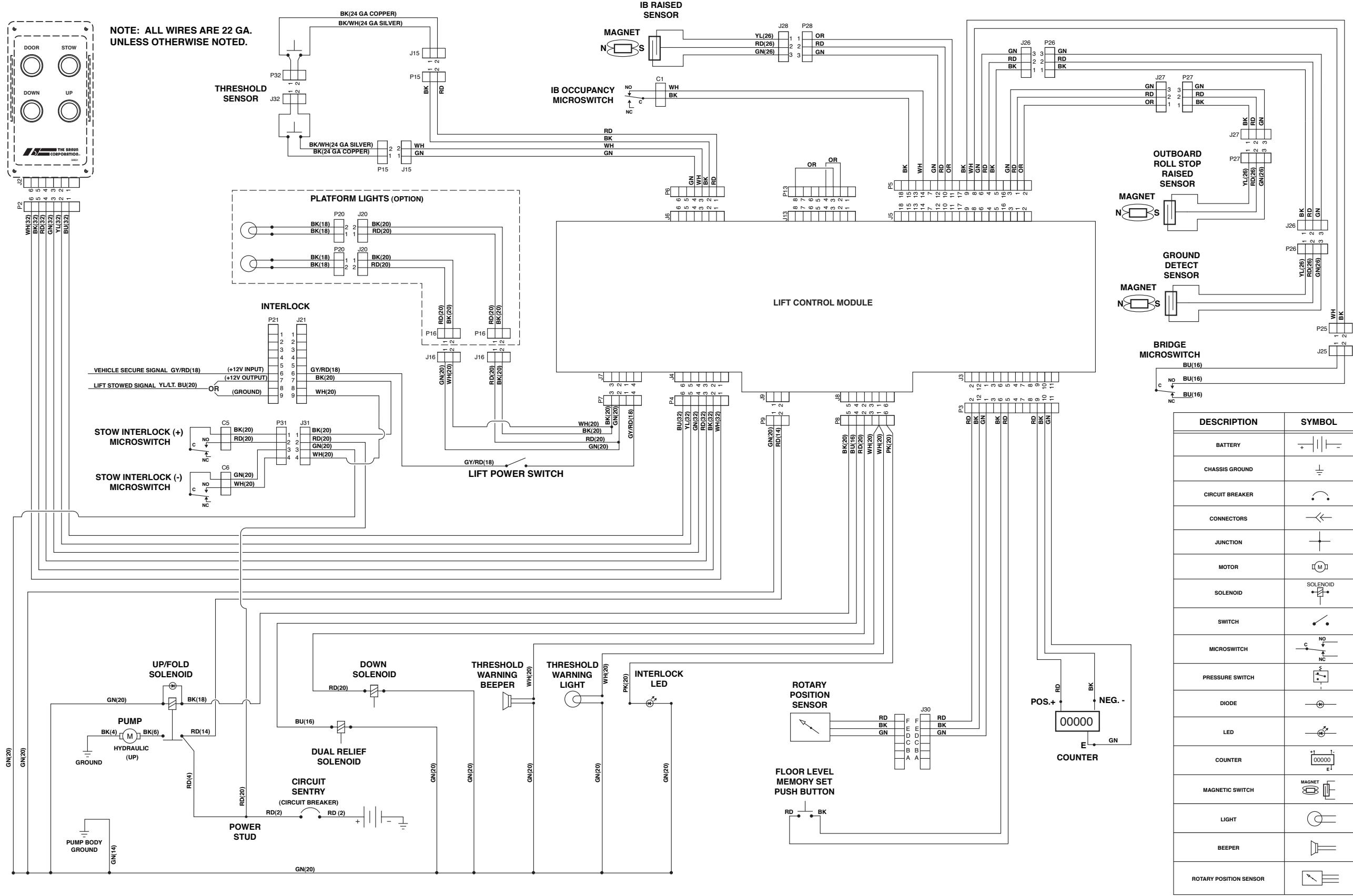
- Vehicle movement is prevented unless the platform is fully stowed.
 1. Verify lift stowed signal - pin 7 on the pump module has a +12 volt signal OR pin 9 has a ground signal (depends on interlock used).
 2. Refer to the interlock installation instructions.
- Lift operation shall be inhibited unless the vehicle is stopped and vehicle movement is prevented.
 1. Verify vehicle secure signal (pin 6) has a +12 volt signal.
 2. Refer to the interlock installation instructions.
- The platform will not fold/stow when occupied.
 1. Position the platform at the floor level loading position.
 2. Loosen the locknut on the dual relief valve adjustment (do not remove locknut). See illustration below.
 3. Turn the adjustment screw counter clockwise until the platform does not fold when the Fold button is pressed.
 4. Turn the adjustment screw clockwise in 1/4 turn increments and press the Fold button until the platform folds completely (Note: return the platform to floor level position after each attempt to fold the platform).
 5. Turn the adjustment screw an additional 1/8 turn after the platform folds successfully.
 6. Tighten the locknut without moving the adjustment screw.
 7. Verify the platform will not stow while occupied.



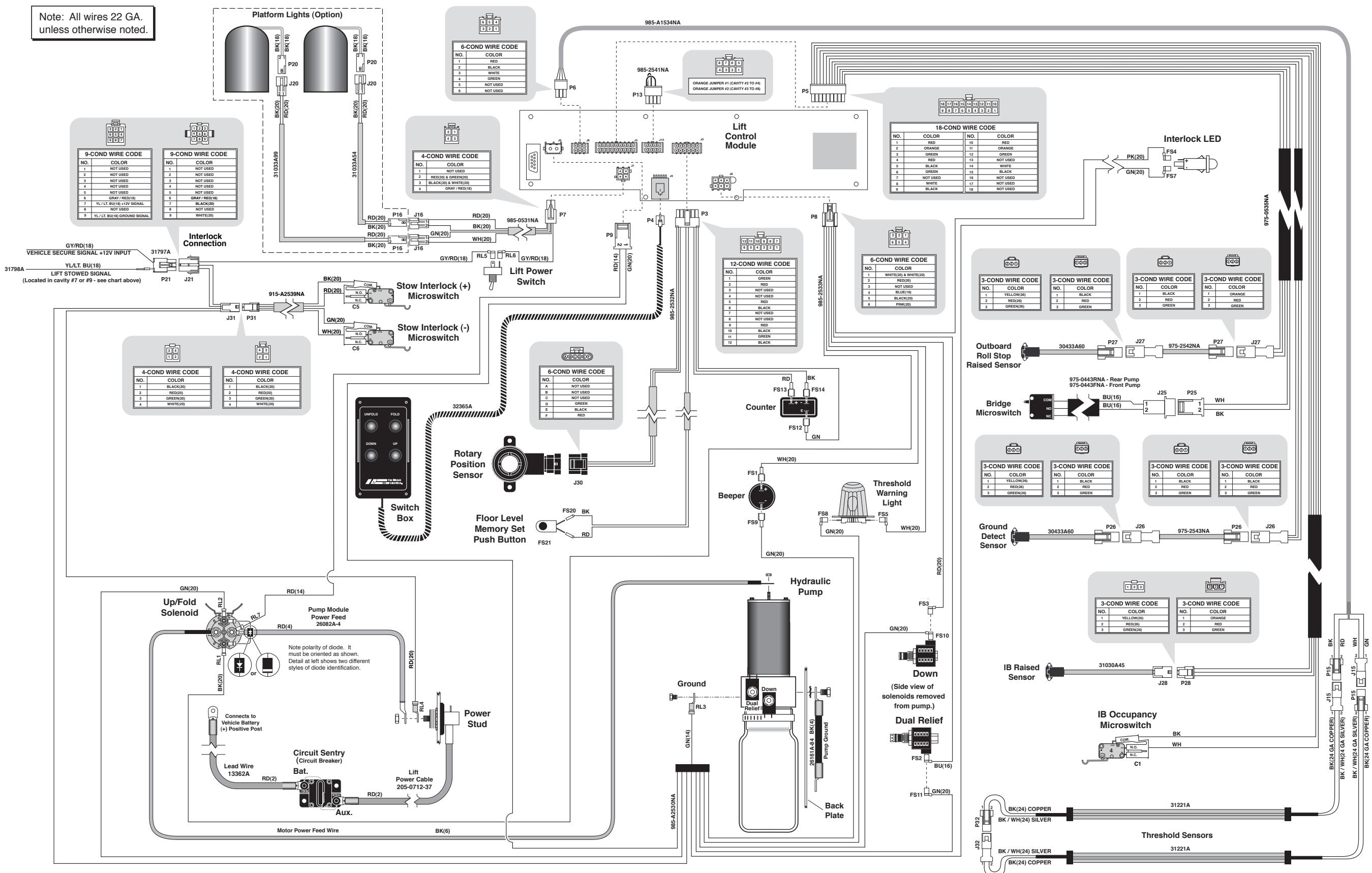
Certification Checklist Diagnostic Procedures

- The inner rollstop will not raise if occupied.
 - Call Product Support
- The outer barrier will not raise if occupied.
 - Call Product Support.
- Verify platform lighting when lift is deployed.
 1. Replace bulb(s) in the light housing.
 2. Check fuse (5 amp fuse on circuit board; F13)
- An audio warning (and visual warning for public lifts) will activate if the threshold area is occupied when the platform is a least 1" below floor level.
 1. Remove the threshold warning plate
 2. Verify the threshold strip switch connectors are connected (see illustration on Page 6)
 3. Replace the threshold strip switch
 4. Reinstall the threshold warning plate
- Lowering the platform beyond the inner rollstop locking position is allowed only when the inner rollstop is locked in position.
 - Call Product Support.
- Lift platform movement shall be interrupted unless the outer barrier is raised and the outer barrier latch is positively engaged.
 - Call Product Support.

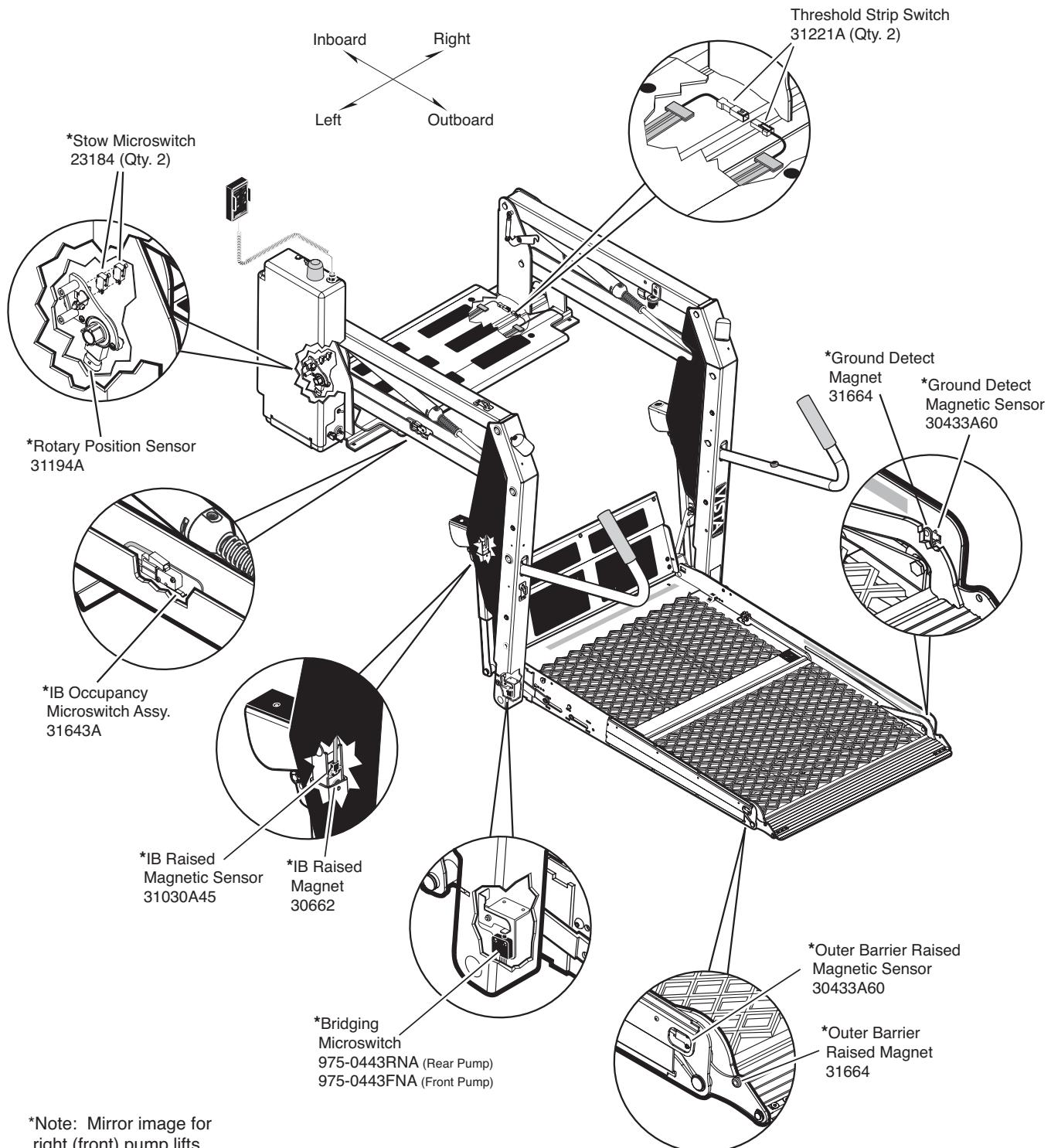
Lift Electrical Schematic



Lift Wiring Diagram



Switch and Sensor Locations



*Note: Mirror image for right (front) pump lifts.

LCD Lift Codes

Listed below are codes that the lift controller outputs during lift operation. The codes will be displayed on an LCD screen located on the lift control board inside the pump module. See the Manual Operating Instructions in the operator's manual for pump cover removal instructions.

Non-Flashing Numbers

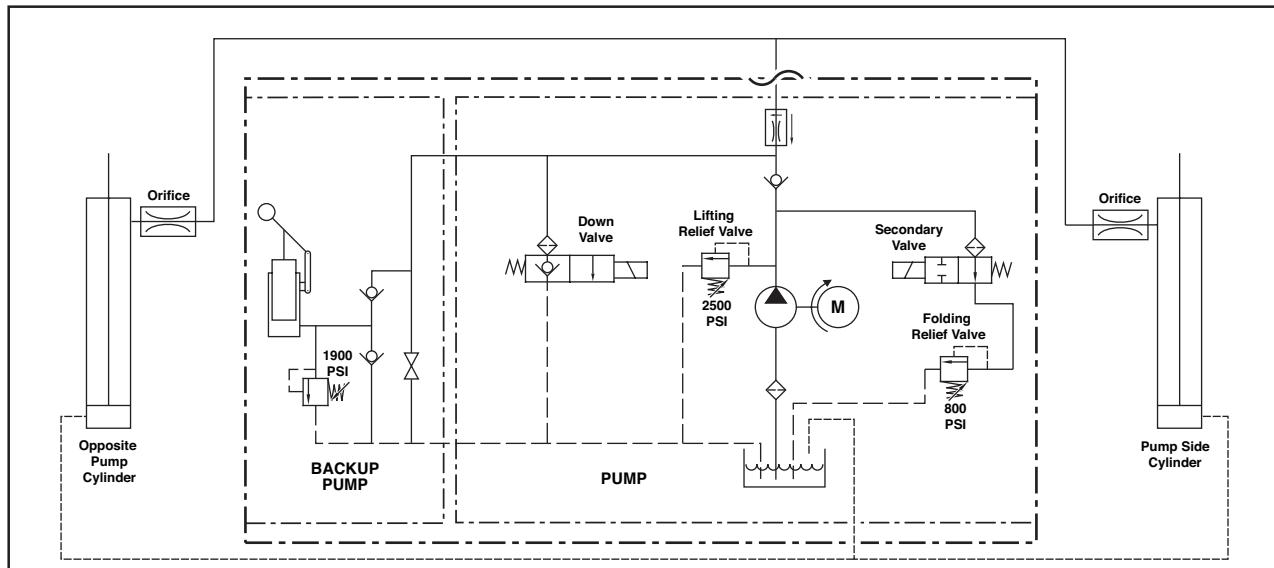
- 01 – Platform stowed
- 02 – Platform unfolding
- 03 – Platform unfolding paused
- 04 – Platform at floor level
- 05 – Platform beginning to lower
- 06 – Platform lowering (threshold cannot be occupied from this point down)
- 07 – Outer barrier moving to horizontal position
- 08 – Platform at ground level
- 09 – Outer barrier moving to vertical position
- 10 – Platform raising
- 11 – Platform raising paused at floor
- 12 – Platform folding (limited pressure)
- 13 – Platform folding (full pressure)
- 14 – Timed fold (cinching lift tite) or (anti-rattle state)
- 15 – Platform folding stopped
- 16 – Paused fold
- 17 – Platform between ground and 3" above ground
- 18 – Platform above 3"
- 19 – Outer barrier moving to horizontal position
- 28 – Illegal function/not defined
- 29 – Interlock fault not recognized (or has been cleared but a motion button is still pressed)
- 30 – Platform location unknown
- 31 – Platform location transition state; attempting to locate position
- 35 – Two or more motion buttons are being pressed
- 36 – The retention belt cannot be buckled while trying to fold or unfold
- 37 – Motion button being pressed is not a valid motion
- 50 – Outer barrier is not up above inboard barrier locked position
- 51 – Threshold is occupied when platform is 1" or more below floor level
- 52 – Inner rollstop is not up and locked below inner rollstop locked position
- 53 – Inner rollstop occupied sensor is not activated between floor and inner rollstop up position
- 54 – Outer barrier is occupied before it is up
- 55 – Outer barrier is not latched when above the inner rollstop locked position (Millennium only)
- 56 – Outer barrier is not up and latched and bridge switch did not deactivate

- 57 – Outer barrier is not up and latched and ground detect switch did not deactivate (Century and Vista only)
- 58 – Outer barrier is not up and latched and the platform is 3" above the ground
- 59 – Outer barrier is not up after pausing platform travel
- 60 – The kickout gas springs are worn, replace before using
- 75 – Low voltage detected; must turn off power switch to reset LCD
- 77 – Vehicle secure interlock has not been activated
- 90 – Position will be set if you keep holding the button until it beeps
- 91 – Position is out of a predetermined acceptable range of floor position
- 92 – Bridge switch is not made, needs adjusting
- 93 – Inner rollstop occupied switch is not made, position needs to be moved or switch should be adjusted
- 94 – Outer barrier is not made, fix and try again
- 95 – Outer barrier latch is not made (check for jumper on Century and Vista lifts, check latch on Millennium lifts)
- 99 – Controller program is not valid; replace controller

Flashing Numbers

- Flashing 65 – Unfold button is pressed
- Flashing 66 – Fold button is pressed
- Flashing 67 – Down button is pressed
- Flashing 68 – Up button is pressed
- Flashing 69 – Bridge switch is activated
- Flashing 70 – Outer barrier latch switch is activated
- Flashing 71 – Ground detect switch is activated
- Flashing 72 – Outer barrier up switch is activated
- Flashing 73 – Inner rollstop up switch is activated
- Flashing 74 – Inner rollstop occupied switch is activated
- Flashing 76 – Outboard barrier occupied switch is activated
- Flashing 78 – Threshold tape switch "A" is activated
- Flashing 79 – Threshold tape switch "B" is activated
- Flashing 80 – Position set button is pressed

Hydraulic Schematic



Description	Symbol	Description	Symbol
Fixed Displacement Pump	●	Hydraulic Port	⌞
Pump Motor	○ M	2 Way 2 Position Solenoid Valve	□ □ □ □ W
Backup Pump	○	Pressure Compensated Flow Control	□
Single Acting Cylinder	□	Relief Valve	△ □ □
Check Valve	○	Filter Screen	◇
Unfold Orifice	—	Vented Reservoir	~~~~~
Manual Shutoff Valve	□		

NOTES

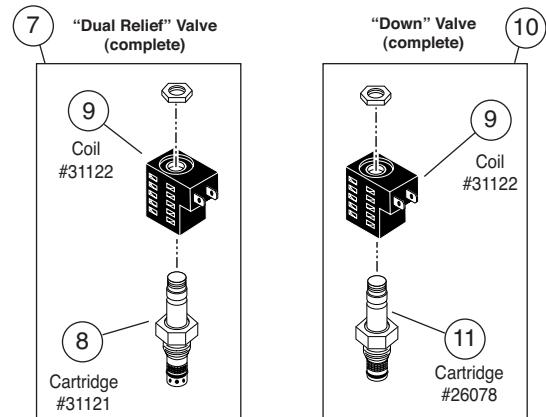
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Hydraulics Parts List

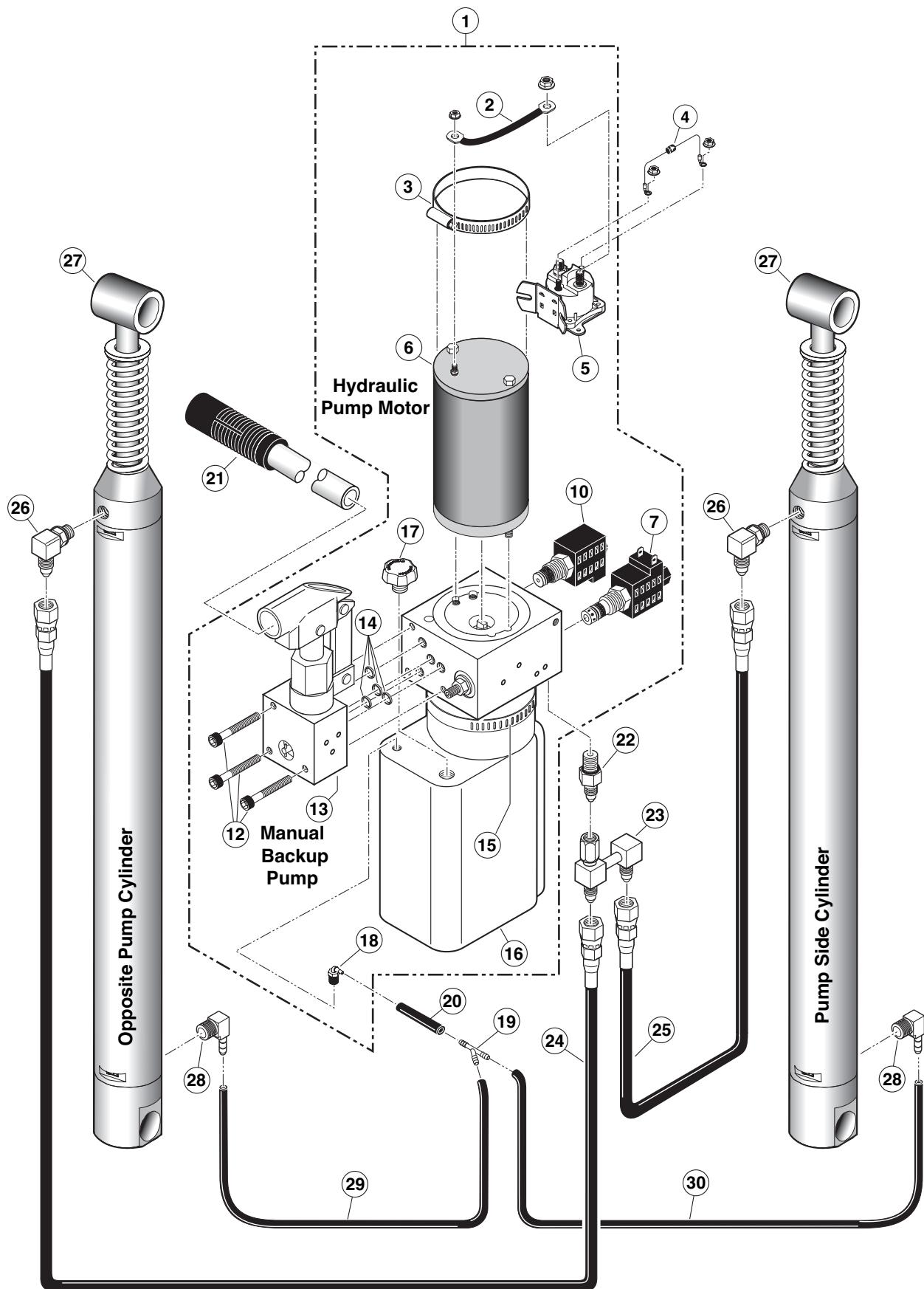
Item	Qty.	Description	Part #
1	1	Pump Assembly (M-268-0112) 120G / 12V / Dual Relief	30915-12V
2	1	Lead Wire Assembly, #6 Guage	29049
3	1	Clamp, Hose (M258)	29663
4	1	Diode Assembly, Up Solenoid	73906A
5	1	Solenoid, 4-Post - Prestolite	28308
6	1	Motor, Pump - 12 Volt - Low RPM	29690
7	1	Valve Assembly, "Dual Relief" (complete)	31120K
8	1	Cartridge (only), "Dual Relief" Valve - (shown below)	31121
9	2	Coil (only) - (shown below)	31122
10	1	Valve Assembly, "Down" (complete)	31348K
11	1	Cartridge (only), "Down" Valve - (shown below)	26078
12	3	Screw, 1/4-20 x 2-1/4", Allen Head	26080
13	1	Hand Pump (Backup) with O-Rings (Item 11)	26074
14	4	O-Ring (only), Hand Pump Mounting	17351
15	1	Clamp, Reservoir - H-48 (M259)	17069
16	1	Reservoir, Hydraulic Fluid	30160
17	1	Cap, Reservoir Filler - Screw On	30167
18	1	Fitting, 90° - 1/8" NPT x 1/8" Barb - Plastic	87563
19	1	Connector, Plastic "Y", 1/8" O.D.	18877
20	1	Hose, Thermal Plastic - Black, 1/8" I.D.	23742R* (6")
21	1	Handle with Grip	17206A
22	1	Fitting, Male 7-16-20 SAE O-Ring to Male 7/16-20 JIC 37°	24504
23	1	Elbow, 7/16-20 JIC 37 Female Swivel (1) - 7/16-20 JIC 37° Male (2)	26579
24	1	Hose Assembly, 1/8" (Opposite-Pump-Side)	16004A-086
25	1	Hose Assembly, 1/8" (Pump-Side)	16004A-046
26	2	Elbow, 90°, 7/16-20 SAE O-Ring Male - 7/16-20 JIC 37° Male, Orifice	26667
27	2	Cylinder ✓	C1514.3-9408
28	2	Elbow, 90°, 1/4 NPT Male to 1/4" Barbed	15150
29	1	Hose, Thermal Plastic - Black, 1/8" I.D.	23742R* (68")
30	1	Hose, Thermal Plastic - Black, 1/8" I.D.	23742R* (30")

✓ **Seal Kits:** If repairing a cylinder, order Seal Kit #1500-0500P.

* Raw material items ordered and priced per inch (order specified length).



Hydraulics Diagram



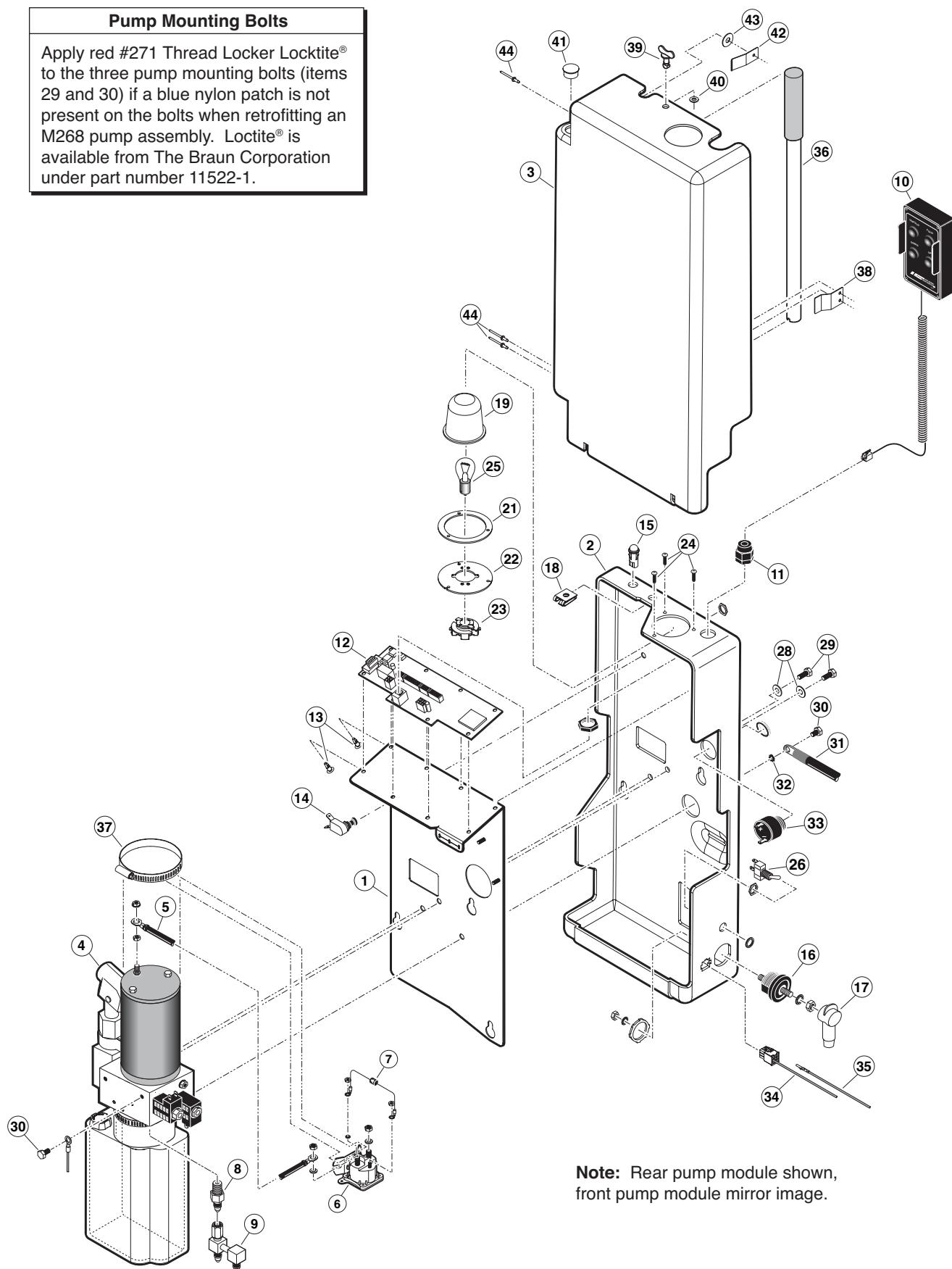
Pump Module Parts List

Part Numbers of Items Dedicated per Lift Model				
Item	Qty.	Description	NVL917IB	NVL917FIB
	1	Pump Module (complete), 12 Volt	985-A3516RNA	985-A3516FNA
1	1	Plate, Backing / Mounting	985-2501RN	985-2501FN
2	1	Cover, Pump, 2-Piece - Back (915-0513RNA or 915-0513FNA includes Items 2 and 18 - 24)	915-0513RN	915-0513FN
3	1	Cover, Pump - 2-Piece - Top / Front (915-0519RNA or 915-0519FNA includes Items 3 and 38 - 50)	915-0519RN	915-0519FN
Part Numbers of Items Identical on all Lift Models				
Item	Qty.	Description		
4	1	Pump Assembly (M268-0112) 12V-120G - Dual Relief (Includes Items 5 & 6)	Part No.	
5	1	Power Cable, Up Solenoid to Motor	30915-12V	
6	1	Solenoid, Up - 4-Post - Prestolite	29049	
7	1	Diode Assembly, Up Solenoid	28308	
8	1	Fitting, Male 7/16-20 O-Ring to Male 7/16-20 JIC 37°	73906A	
9	1	Elbow, Female Swivel 7/16-20 JIC 37° to (2) Male 7/16-20 JIC 37°	24504	
10	1	Control, Hand Pendant Assembly - Standard	26579	
11	1	Strain Relief - Liquid Tight	32365A	
12	1	Control Board Assembly	30753	
13	8	Standoff, Snap-In (2 shown)	100159-001	
14	1	Switch, Push Button	31011	
15	1	Diode, Green LED, Panel Mount	31753	
16	1	Stud, Power Feed	29545	
17	1	Rubber Boot, Red ♦See note below	26084	
18	1	Receptacle, Clip On	82046	
19	1	Lens, Threshold Warning - Red	28803	
20	1	Decal, Warning / Pressure Relief Valve (Not shown - see Decal Section)	30704	
21	1	Spacer, Lens - NHTSA	22249	
22	1	Metal Ring Base - Lamp	31386	
23	1	Socket, Lamp	30971	
24	3	Screw, #8-32 x 1/2" Pan Head Phillips - Thread Cut	30703	
25	1	Bulb, Light	30974	
26	1	Switch, Toggle	19841	
27	1	Decal, Lift Power - On/Off (Not shown - see Decal Section)	12185	
28	2	Washer, 5/16" Flat	21494	
29	2	Bolt, 5/16-18 x 3/4", Nylock, Hex * See note below	10063	
30	2	Bolt, 5/16-18 x 1/2", Nylock, Hex * See note below	29608	
31	1	Cable, Ground	10012	
32	1	Washer, 5/16" External Tooth	22166A	
33	1	Beeper, Continuous	16368	
34	1	Wire Assembly, Lift Interlock Connection	30487	
35	1	Wire Assembly, Lift Stowed Connection	31797A	
36	1	Pump Handle with Grip	31798A	
37	1	Clamp, Hose - Solenoid Mounting	17206A	
38	1	Clip, Pump Handle - Bottom	29663	
39	1	Stud, Wing Head - 1/4 Turn	915-5518	
40	1	Retainer, Push On	28804	
41	1	Plug, Window - Clear	28805	
42	1	Clip, Pump Handle - Top	30443	
43	1	Washer, Nylon, 1/4" I.D. x 11/16" O.D. x .030"	915-5517	
44	3	Rivet, Pop, SD43BS - 1/8" - .13"/.19"	12690	
45	1	Decal, Removal / Installation Pump Handle (Not shown - see Decal Section)	12954	
46	1	Decal, Manual Instructions - Public (Not shown - see Decal Section)	29052	
47	1	Decal, Removal / Installation - Pump Cover (Not shown - see Decal Section)	31412	
48	1	Decal, Warning - Control Board Damage - ESD (Not shown - see Decal Section)	29051	
49	1	Decal, Instructions and Warning, Hydraulic Pressure Switch (Not shown - see Decal Section)	30787	
50	1	Decal, Dual Relief Adjustment (Not shown - see Decal Section)	27154	
51	1	Cable, Pump Module Power Hookup (Not shown - see Wiring Diagram)	32201	
52	1	Harness, Power (Not shown - see Wiring Diagram)	26082A-4	
53	1	Harness, Interlock / Lighting (Not shown - see Wiring Diagram)	985-A2530NA	
54	1	Harness, Up / Down Solenoid (Not shown - see Wiring Diagram)	985-0531NA	
55	1	Harness, Extension - Threshold Switch (Not shown - see Wiring Diagram)	985-2533NA	
56	1	Harness, Jumper (Not shown - see Wiring Diagram)	985-A1534NA	
			985-2541NA	

* Apply red #271 Thread Locker Loctite® to the four hex bolts (items 29 and 30) if a blue nylon patch is not present on the bolts when retrofitting an M268-0112 pump assembly. Loctite® is available from The Braun Corporation under part number 11522.

♦ Indicates items available for replacement part purposes **only**. These items **are not** included with replacement pump modules.

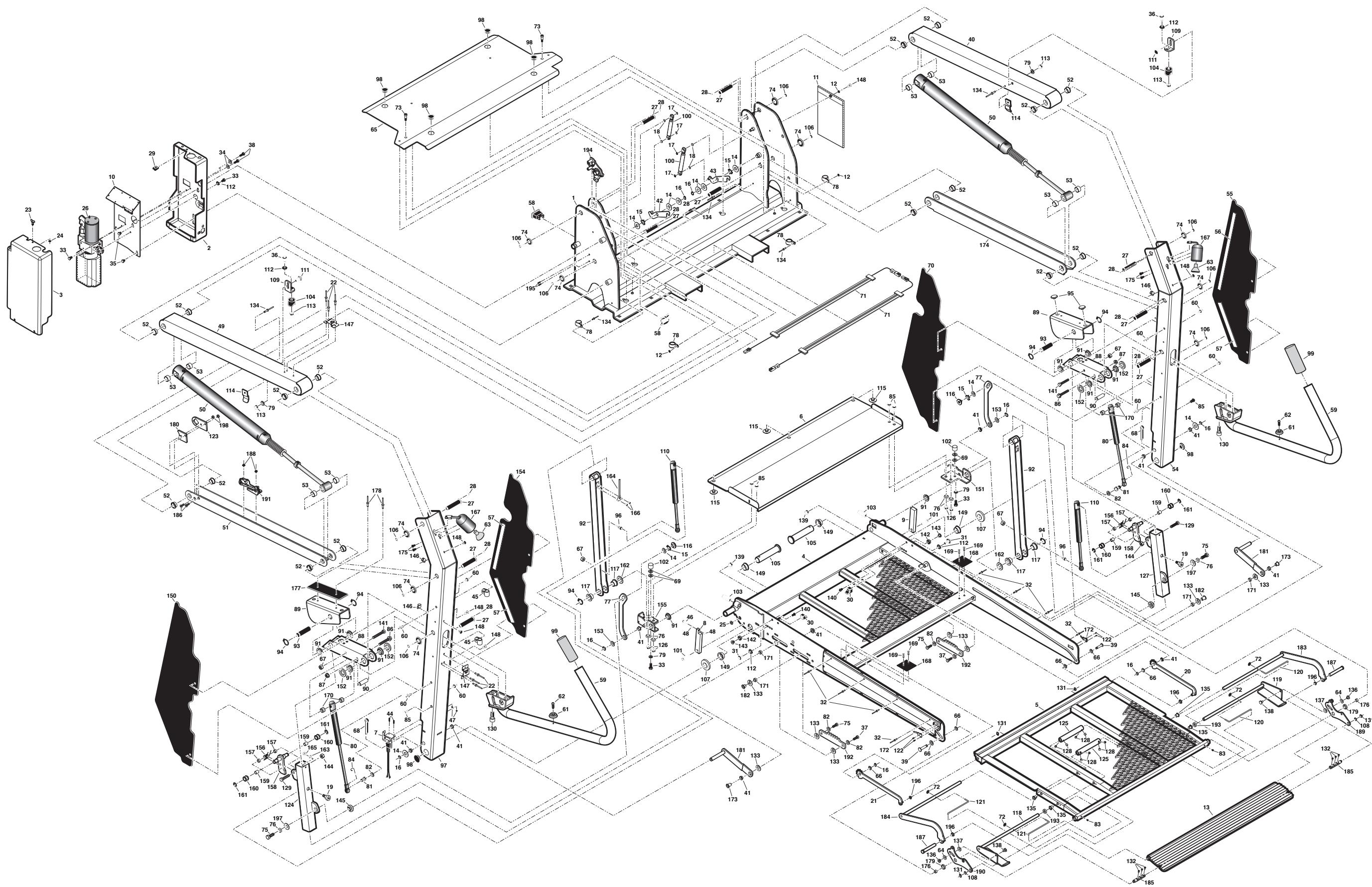
Pump Module Diagram



Repair Parts List

Part Numbers of Items Dedicated per Lift Model							
Item	Qty.	Description	NVL917IB	NVL917FIB			
1	1	Base Weldment	975R3148NW/33	975F3148NW/33			
2	1	Cover, Pump, 2-Piece, Back-Bottom	915-0513RN	915-0513FN			
3	1	Cover, Pump, 2-Piece, Top-Front	915-0519RN	915-0519FN			
4	1	Platform Weldment Fixed Inner	975-03351NW	975-03351NW			
5	1	Platform Weldment Movable Outer	975-0336NW	975-0336NW			
6	1	Bridge Plate	975-3148CNA33Y	975-3148CNA33Y			
7	1	Bridge Switch Assembly	975-0443RNA	975-0443FNA			
8	1	Block, Platform Stop - Bridging - Rear	25778	900-0311			
9	1	Block, Platform Stop - Bridging - Front	900-0311	25778			
10	1	Plate, Backing/Mounting Rear	985-2501RN	985-2501FN			
Part Numbers of Items Identical on All Lift Models							
Item	Qty.	Description	Part No.	Item	Qty.	Description	Part No.
11	1	Bag, Vinyl - 7" x 10"	31174	109	2	Bracket, Mounting, Quiet Ride	915-0392
12	3	Washer, #10, Flat, Auto BK	11541	110	2	Gas Spring, 12.2" Extended/8.3" Compressed	26698
13	1	Roll Stop, .33"	975-0312NY	111	2	Bolt, 5/16-18 x 3/4", Carriage, Black	158588BK
14	10	Washer, .516" I.D. x 1" O.D. x .0269", Auto BK	15328	112	5	Washer, 5/16", External Tooth	16368
15	4	Washer, Finger, Disc Spring	27276	113	4	Nut, 5/16-18 Hex	10058
16	8	Snap-Ring 1/2"	13273	114	2	Bracket, Inner Side Panel Guide	915-0703
17	4	Snap-Ring 5/16"	24570	115	3	Bearing, UHMW, Flat, Thin, Black	916-5406
18	4	O-Ring, 5/16" I.D. x 1/16" O.D.	26614	116	2	Pivot, Bridge Plate Lever, Upper, Inside	916-5433
19	2	Screw, Socket Head, 3/8-16 x 1/2" with 1/2" Shoulder	25929	117	4	Bearing, Flange - 3/4" x 1/2"	24027
20	1	Gear Assembly, Rear	975-2328RABKN	118	1	Weldment, Latch Foot, Rear	975-0204RNW
21	1	Gear Assembly, Front	975-2328FRAKBN	119	1	Weldment, Latch Foot, Front	975-0204FNW
22	6	Rivet, Pop, 1/8"-13/16", 19"	12954	120	2	Rod, 5/32" Torsion Spring Bar, Front	28132F
23	1	Stud, Wing Head	28804	121	2	Rod, 5/32" Torsion Spring Bar, Rear	28132R
24	1	Retainer, Push-On	28805	122	4	Screw, #4-40 x 3/16" THD FORM	31043
25	1	Grommet, ID .312", FR .250", GD .813" T500"	27726	123	1	Position Sensor Collet	31093
26	1	Pump Assembly, (M268 with Backup Pump)	30915-12V	124	1	Weldment, Tube-IB Fold Arm-Rear	975-0625RNW
27	10	Pin, Pivot, Parallel Arm	917-0403	125	2	Collar, Roll Stop, Torsion Bar	975-2208
28	10	Screw Drive #8 x 3/16" Long Black	31086BK	126	4	Nut, 3/8-16, Hex	100598BK
29	1	Receptacle, Clip-On	28803	127	1	Weldment, Tube-IB Fold Arm-Front	975-0625FNW
30	2	Bumper, Stow, Millennium	26154	128	8	Screw, 5/16-18 x 5/16", Set	11567
31	2	Bolt, 5/16-18 x 1/2", Button Head, Socket Cap	26281	129	2	Bolt, 5/16-18 x 1/2" Hex Head, Cap	10014
32	8	Rivet, Pop, SD43BS - 1/8"-.13/19	12954	130	2	Bolt, 7/16-20 x 1", SHCS, w/Nylock Patch	28474
33	4	Bolt, 5/16-18 x 1/2" Nylock, Hex	10012	131	4	Ring, 3/8" Retaining Snap	13889
34	2	Washer, 5/16" Flat	10063	132	6	Screw, #10-32 x 1 1/2, Flat Head-Hex w/Patch	17192P
35	2	Bolt, 3/8-16 x 1/2" Nylock, Hex	29729	133	8	Washer, Thrust, 1.125" O.D., .625" I.D., .058" THK	29378
36	2	Bolt, 5/16-18 x 3/4", Button Head, Soc Cap Hd	24440	134	6	Rivet, Pop, 3/16"-25/38", Black	14993
37	2	Bolt, 3/8-16 x 3/4" GR5-Hex, Auto, BK	12463	135	4	Bearing, Flange, 10MM x 12MM, FMB1012DU	28128
38	2	Bolt, 5/16-18 x 3/4" Nylock, Hex	29608	136	2	Nut, 1/4-20 x 3/16", Roll Stop	975-0205N
39	2	Pin, Bearing, Platform Side	975-2360	137	2	Washer, Nylon, .34" I.D. x .74" O.D. x .62" T	31439
40	1	Parallel Arm Assy., Top-Front w/Bearings	915-0437FA	138	2	Bolt, 1/4-20, Shoulder, Roll Stop	975-0211
41	10	Bearing, Flange, 1/2" x 1/4"	24442	139	2	Nut, 5/16-18, Top Lock, Black	28324BK
42	1	Weldment, Latch, Lift/Tite, Rear	27013RW	140	2	Bolt, 1/4-20 x 1/2", Button Head Socket	15733
43	1	Weldment, Latch, Lift/Tite, Front	27013FW	141	2	Bolt, 3/8-16 x 2", Hex Head, Cap	10027
44	2	Screw, #4-40 x 5/8", Round Head	14810	142	2	Roller Assembly	1000-2395A
45	2	Clip, Cable, 5/16", Plastic	26948	143	2	Roller Retainer	915-5353
46	1	Screw, #8-32 x 1", Mach, Truss Head	19912BK	144	2	Nut, 5/16-18 Hex, Lock	11387BK
47	2	Nut, #4-40 w/Lockwasher	19537	145	2	Pivot, Bridge Plate Lever, Upper-Outer	916-5434
48	2	Nut, #8-32, Hex	10777	146	3	Clamp, 1/4" Loop, Nylon	84396
49	1	Parallel Arm Assy., Top-Rear w/Bearings	975-2437RA	147	2	Clip, Hand Control Hanger	84389
50	2	Cylinder, 14.625"29,146" Retracted	C1514.3-9408	148	6	Rivet, Snap, .201" x .256", .259"	26362
51	1	Parallel Arm Assy., Bottom w/Bearings and Sensors - Rear	975-0458NA	149	4	Bearing, Flange, 1" x 1/2-16FDU08	28031
52	16	Bearing, Flange, 3/4" x 3/8"	24011	150	1	Cover, Plastic, Parallel Arm, O/S Rear-w/Tape	915-0702NA
53	8	Bushing, 3/4" I.D. x 1/2"	900-0456	151	1	Weldment, Bridgeplate Bracket, Front	985-0431FNW
54	1	Vertical Channel Weldment, Front, 48"	975-0448FNW	152	4	Spacer, Handrail, 375" Thk, UHMW	995-0301
55	1	Cover, Plastic, Parallel Arm, O/S Front-w/Tape	915-0704NA	153	2	Washer, .516" I.D. x .75" O.D. x .250", Black	25336
56	2	Tape, 1" Wide S-Face Foam, x 14" (1 Shown)	82015R014	154	1	Cover, Plastic, Parallel Arm, I/S Rear-w/Tape	975-0703NA
57	6	Tape, 1" Wide S-Face Foam, x 10" (3 Shown)	82015R010	155	1	Weldment, Bridgeplate Bracket, Rear	985-0431RNW
58	1	Cycle Counter-LCD Without Reset	30547	156	2	Spring, Torsion - .366 I.D. x .05"	30386
59	2	Handrail Weldment	985-0618NW	157	4	Spacer, IB Lock	30394
60	8	Rivet, Push-in - 8MM	30063	158	2	Weldment, IB Lock	985-0630NW
61	2	Bumper, Rubber 31/32" O.D.	10950	159	4	Bearing, 3/8" I.D. x 1/2" Long	30405
62	2	Screw, #8-18 x 1/2", Self-Tap, Phillips	13583	160	4	Roller, .65" O.D. x 1/2" Long	985-0631N
63	2	Bulb, Light 20-W, Halogen Reflector	31060	161	4	E-Clip, 3/8" Shaft	84383
64	2	Washer, .328" I.D. x .75" O.D., .062" T-UHMW	31438	162	2	Spacer, Handrail, .230" Thk, UHMW	911-5301
65	1	Base, Cover -33"	975-3148CN33Y	163	1	Magnet - Sensor Ring	3062
66	6	Washer, Thrust, .875" O.D., .50" I.D., .058" ST	29371	164	1	Harness, Sensor - Magnetic w/Plug - 37"	30433A37
67	4	Nut, 3/8-16, Hex Lock	13617	165	1	Rivet, Snap, Black, .201" I.D. x .177" Thick	30408
68	2	Cotter Pin, 1/4" x 2", Black	15886BK	166	2	Rivet, Snap, Black, .158" x .177 Thick	25759
69	4	Washer, 1/4" Flat	10062	167	2	Light Assy, Vertical Channel	31062A
70	1	Cover, Plastic, Parallel Arm, I/S Front-w/Tape	975-0701NA	168	2	Pad, Roll Stop, Foot Stowed	975-2379
71	2	Threshold Strip Switch	31221A	169	4	Plug, Interior, Plastic Push, Black	P50067-BK
72	4	Retainer, Push, 5/32" Threadless Shaft	31728	170	4	Spacer, UHMW-.75" O.D. x .39" I.D. x .25"	30227
73	2	Bolt, Shoulder, 5/16" x 5/8", 1/4-20 Thread	31816	171	4	Bearing, Platform, Slide	975-2359
74	10	Washer, 1/2" Flat Black Zinc	25346	172	2	Harness, Sensor, Magnetic w/Plug - 60"	30433A60
75	4	Bolt, 3/8-16 x 1", Hex	10025	173	2	Pin, Bearing, Gear Rack	975-2334
76	6	Washer, 3/8", Lock Black	10069BK	174	1	Parallel Arm Assy., Bottom w/Bearings-Front	917-0475NA
77	2	Lever, Inboard Barrier	975-0404N	175	4	Screw, #10-32 x 1/2" Button Head, Socket, Cap	30375WP
78	4	Clamp, Insulate, 1 3/8" I.D.	29765	176	2	Bearing, Platform, Slide	975-2358
79	4	Washer, 5/16" Lock, Black	10068	177	1	Slide, UHMW,Platform Rotate	31677
80	2	Gas Spring, Fold Arm	29186	178	2	Rivet, Pop, 3/16"-.13/25" - SD64BS	11513
81	2	Ball Stud, Gas Spring, 13MM x 3/8-16 F. Thread	29185	179	2	Spacer, 5/8" I.D., 7/8" O.D. x 3/16" L-UHMW	31678
82	6	Washer, 3/8", Lock	10069	180	1	Position Sensor Spacer	31092
83	2	Screw, 1/4-20 x 14", Set	11563	181	2	Link, Weldment, Platform, Vertical Channel	975-2223W
84	2	Clip, Safety, 3/8-16 x 3/4", Flange	12608	182	2	Pin, Bearing, Gear Rack	975-2202
85	6	Bolt, 3/8-16 X 3/4", Flange Button Head, Socket Cap	25171	183	1	Roll Stop Pivot Arm Front	975-0216RNWY
86	2	Bolt, 5/16-18 x 2", Flange, Hex	25130	184	1	Roll Stop Pivot Arm Rear	975-0216FNWY
87	2	Nut, 5/16-18, Serrated Flange	25131	185	2	Pin, Roll Stop, Vista	975-0217N
88	2	Arm, Slide Support	985-0612N	186	2	Screw, 1/4-20 x 3/4", Flat Head, Socket, Countersink	28986
89	2	Slide, Platform, Rotate	985-0606N	187	2	Pin, Bearing, Platform, Slide	975-2360
90	2	Spacer, 5" O.D. x .334" I.D. x 1.515" LG	25132	188	2	Nut, #10-32 w/Lockwasher	18349
91	10	Bearing, Flange, 3/4" x 1/4"	24012	189	1	Assembly, Link, Roll Stop, Rear Pump, Front	975-0219FNABKN
92	2	Weldment, Platform Pivot Arm - 4"	985-0640NW-BKN	190	1	Assembly, Link, Roll Stop, Rear Pump, Rear	975-0219RNABKN
93	2	Pin, Pivot, Lower Arm	900-0413N	191	1	Assembly, IB Occupied	31643A
94	6	Ring, Snap, 3/4", External	18657	192	2	Gear Rack, Platform Fold	975-2329BNK
95	2	Bearing, UHMW, Flat, 1.226"	205-1760	193	2	Washer, .39" I.D. x .75" O.D., .21" T-UHMW	31440
96	2	Ball Stud, 10MM	21301	194	1	Assembly, Rotary Position Sensor	31094A
97	1	Vertical Channel Weldment, Rear	975-0448RNW	195	2	Screw, 1/4-20 x 3/4" BHSCS 18-8 SS	81068-000
98	6	Plastic End Cap, 1" I.D. x 1 1/4" O.D.	20474	196	4	Bearing, Flange, 3/8" I.D. x 1/4"	24028
99	2	Grip, Handle, Yellow	19074	197	2	Washer, 3/8" Flat, Black	10064
100	2	Spring, Dampener, Retract	26963	198	2	Nut, 1/4-20 Hex Lock	10775
101	2	Bolt, 5/16-18 x 1 1/4" Low Socket Hd., Cap, Bk.	26327				
102	2	Bumper, .75"-.625" Long	915-0391				
103	2	Screw, 1/2-20 x 1 1/2" Set Lock, Black	18663				
104	2	Block, Guide-Platform Stow	28593				
105	2	Pin, Platform	975-2325				
106	10	Screw, 5/16-18 x 3/4", SHFS	25527				
107	2	Spacer, UHMW, Vertical Channel	995-0320				
108	2	Washer, .376" I. D. x .563" O.D., .032" T-18-8 SS	31514				

Exploded View



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1-800-THE LIFT® (574) 946-6153 Winamac, IN 46996 USA
FAX: (574) 946-4670

Vista Series Lift
Braun "Worry-Free"
Five-Year Limited Warranty

The Braun Corporation of Winamac, Indiana, warrants its wheelchair lift against defects in material and workmanship for up to five years*, providing the lift is installed, operated and maintained properly and in conformity with this manual. This warranty is limited to the original purchaser and does not cover defects in the motor vehicle on which it is installed, or defects in the lift caused by a defect in any part of the motor vehicle.

This warranty commences on the date the lift is put into service, providing the warranty registration card is completed and received by The Braun Corporation within twenty days of purchase. If no warranty card is received, the warranty will expire three years from the date of manufacture as identified on the lift serial number tag.

This warranty also covers the cost of labor for the repair or replacement of parts for three years when performed by an approved Braun Dealer. (A labor schedule determines cost allowance for repairs, which can be provided upon request by an approved Braun Dealer).

This warranty does not cover normal maintenance, service, or periodic adjustments necessitated by use or wear. The Braun Corporation will not, under any circumstances, pay for loss of use, incidental or consequential damages related to the lift, or vehicle in which it is installed.

This warranty will become null and void if the lift has been damaged through accident, misuse, or neglect, or if the lift has been altered in any respect.

* The five-year portion of this warranty covers the following lift's power train parts:

- Cable
- Cylinder
- Flow Control
- Gear Box
- Motor
- Pump
- Hydraulic Hose & Fittings
- Solid State Controller

All remaining lift components are covered by a three-year warranty.

Return Authorization Procedure

When processing any warranty claims (parts, repairs, etc.), all requests must be processed through The Braun Corporation Product Support Department. Call 1-800-THE LIFT® (extension 3009) during normal working hours. Product Support will issue a Return Material Authorization (RMA) number and detail the procedures required for processing returns and/or authorizing credit.

The lift identification information is provided on the Braun Serial No./Series No. identification tag and the two warranty cards (shown on inside front cover). The lift identification information must be provided when filing a warranty claim or ordering parts.



32744
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All illustrations, descriptions and specifications in this manual are based on the latest product information available at the time of publication. The Braun Corporation reserves the right to make changes at any time without notice.

Patent #5,261,779

Patent #6,464,447

Patent #6,739,824

Patent #6,065,924

Patent #6,599,079

Patent #6,837,670

Patent #6,238,169

Patent #6,692,217

Patents Pending

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